	Transplant onion response to Goal and pendimethalin mixtures.												
	Crial ID: Onion7-05 Study Dir.: Stanley Culpepper Location: VORF Investigator: Stanley Culpepper												
	Reps: 4Plots: 6 by 25 feetSpray vol: 14.8 gal/acMix size: 1 liters (min .77168)												
	Treatment Name		Form Type	Rate		Grow Stg	Appl Code	Amt Product to Measure	Plot N 1	lo. By 2	Rep 3	4	
1	Pendimax	3.3	EC	2	PT/A	transpla	А	16.89 ml/mx	101	205	307	402	
2	Prowl H20	3.8	AS	1.76	PT/A	transpla	А	14.86 ml/mx	102	203	305	403	
3	Pendimax Goal 2 XL		EC EC			transpla transpla		16.89 ml/mx 12.67 ml/mx	103	208	306	407	
4	Pendimax Goal 2 XL		EC EC			transpla transpla		16.89 ml/mx 25.34 ml/mx	-	206	304	401	
5	Pendimax GoalTender		EC L			transpla transpla		16.89 ml/mx 6.334 ml/mx		207	308	405	
6	Pendimax GoalTender		EC L			transpla transpla		16.89 ml/mx 12.67 ml/mx		201	303	404	
7	Prowl H20 GoalTender		AS L			transpla transpla		14.86 ml/mx 12.67 ml/mx	-	204	302	406	
8	Non-treated								108	202	301	408	

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
105.563	ml	Pendimax	3.3	EC	
37.158	ml	Prowl H20	3.8	AS	
47.503	ml	Goal 2 XL	2	EC	
39.586	ml	GoalTender	4	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Evaluate transplant onion tolerance to pendimethalin/oxyflourfen combinations.

VISUAL INJURY:

1. Injury was minimal throughout the season with less than 10% injury.

PRIMROSE CONTROL:

- 1. A very light infestation of primrose was present and did not emerge until Feb.
- 2. Control by pendimethalin mixtures was non-existent; however, oxyflourfen mixtures provided excellent control.

ONION YIELD:

1. As expected with little injury and only late emerging primrose, the number and weight of onions harvested were similar among herbicide treatments.

2. Even though primrose was late emerging and yield loss was not statistical from this competition, the trend was evident in the non-treated control.

University of Georgia

	Transplant onion response to Goal and pendimethalin mixtures.										
Tria	Trial ID: Onion7-05 Study Dir.: Stanley Culpepper										
Loca	ation: VORE	?			Inve	stigator:	Stanley	Culpeppe	r		
Wee	d Code							OEOLA	Yield	Yield	
Crop	Code			onion	onion	onion	onion		onion	onion	
Ratir	ng Data Type			injury	injury	injury	injury	control		-	
	ng Unit			percent				•		lb/10ft	
	ng Date			Dec-20-05					May-10-06	-	
	essed By			AM	SC	AM	SC	SC		SC	
	val Interval		_	10 DA-A	29 DA-A	29 DA-A	117 DA-A	117 DA-A	151 DA-A	151 DA-A	
	Treatment	Data	Rate	4	0	0	4	-	0	7	
	Name	Rate		1	2	3	4	5	6	7	
	Pendimax		PT/A	0 a	4 b	0 a	0 a	0 b		29 ab	
2	Prowl H20	1.76	PT/A	0 a	4 b	0 a	0 a	0 b	25 a	27 ab	
-	Pendimax	_	PT/A	0 a	3 b	0 a	0 a	100 a	26 a	27 ab	
	Goal 2 XL	-	PT/A								
	Pendimax		PT/A	0 a	5 b	0 a	0 a	100 a	26 a	26 ab	
	Goal 2 XL		PT/A								
-	Pendimax	_	PT/A	0 a	5 b	0 a	0 a	100 a	25 a	27 ab	
	GoalTender	0.75	PT/A								
-	Pendimax		PT/A	0 a	4 b	0 a	0 a	100 a	27 a	28 ab	
	GoalTender	1.5	PT/A								
-	Prowl H20		PT/A	0 a	8 a	0 a	0 a	100 a	28 a	29 a	
	GoalTender	1.5	PT/A								
8	Non-treated			0 a	0 c	0 a	0 a	0 b	26 a	24 b	
LSD	(P=.05)			0.0	2.4	0.0	0.0	0.0	5.0	4.5	
Stan	dard Deviatio	on		0.0	1.6	0.0	0.0	0.0	3.4	3.1	
CV				0.0	38.96	0.0	0.0	0.0		11.43	
	ett's X2			0.0	11.414	0.0	0.0	0.0	3.863	8.623	
P(Ba	artlett's X2)				0.076				0.795	0.281	j

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

	Transplant oni	on response to Goal and pendimethali	n mixtures.							
Trial ID: Onion'	7-05	Study Dir.: Stanley Culpepper								
Location: VORF										
	GENERAL T	RIAL INFORMATION								
Study Director:	cudy Director: Stanley Culpepper Title: Ext. Weed Science									
	Univ. of Georgia									
Postal Code:										
Investigator:	Stanley Culpepper	Title: Ext. Weed	Science							
Affiliation:	Univ. of Georgia									
Postal Code:	31794									
	TRI	TAL LOCATION								
City: Via	dalia	Trial Status:	completed							
State/Prov.: GA		Trial Reliability:	good							
Postal Code:			Dec-08-05							
Country: USA		Planned Completion Date:								
		N-Latitude of LL Corner °:								
	Corner: Uni	t: Angle y-axis to North °:								
Directions:										
	COOPER	RATOR/LANDOWNER								
Cooperator:		Country:								
Org:		Phone No:								
		Fax No:								
-										
Postal Code:										
		Conducted Under GEP (Y/N): N								
Guidelines:	Guideline	Description:								
Objective:										
Conclusions:										

51	
Crop 1: ALLCE ONION	Variety: Century
Planting Date: Dec-08-05	Planting Method: transplant
Rate: 1 4.5 inch Depth	: 1 in Perennial Age:
Row Spacing: 15 inch Spacing	Within Row: 4.5 inch Seed Bed: flat
Soil Temperature: 60 F Soil M	oisture: fair/irrigat Emergence Date:
SI	TE AND DESIGN
Plot Width, Unit: 6 FT P	lot Length, Unit: 25 FT Reps: 4
Site Type: Vidalia Research Fa:	rm
Tillage Type: Conventional	Study Design: RANDOMIZED COMPLETE BLOCH

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

		Maintenance	Form	Form	Form		Rate
No.	Date	Treatment Name	Conc	Unit	Туре	Rate	Unit
1.							

			SOIL DESCRIPTION	N
% Sand: 86	% OM:	0.47	Texture:	loamy sand
% silt: 10	pH:	5.9	Soil Name:	
% Clay: 4	CEC:		Fert. Level:	

	ADDITIONAL M	IEASURED	ELEMEN	ITS
Element		Quant	ity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: irrigated aggressively Closest Weather Station: _____ Distance: ____ Unit: __

	A
Application Date:	Dec-10-05
Time of Day:	9 am
Application Method:	broadcast
Application Timing:	2DATRAN
Applic. Placement:	overtop
Air Temp., Unit:	50 F
% Relative Humidity:	64
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	54 F
Soil Moisture:	wet
% Cloud Cover:	0

APPLICATION DESCRIPTION

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE .
Stage Scale:	2DATRANS
Height, Unit:	4 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA .
Stage Scale:	not up
Density, Unit:	0.1 ydsq

	_
	А
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 in
Nozzles/Row:	1
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	N

Trt No

Treatment Application Comment